

Creating actionable URLs for the DLF- Aquifer asset action portal

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University of Illinois at Urbana-Champaign

Atlanta, July 2006



Digital libraries need objects

Users should be able to “download, manipulate, morph, annotate, cross-search, and repurpose digital library content”

David Seaman

<https://www.educause.edu/ir/library/pdf/ERM0348.pdf>



The Asset Action portal: Digital services need digital objects



Collections

- Charles W. Cushman Photograph Collection Indiana University Archives
- Encyclopedia of Chicago (Chicago Historical Society)
- Northwestern University Library World War II Poster Collection
- African Posters from the Melville J. Herskovits Library of African Studies at Northwestern University
- The Edwin C. Bolles Collection: A Digital Archive on the History and Topography of London (Digital Collections and Archives - Tufts University)
 - 3258 metadata records in MODS and OAI DC



Proposing a list of actions



DLF Aquifer - Asset action experimentation

Technical working group

Search Resources

Thumbnails view

View bookbag

page 1 / 2

Go to page 1 2 Next page >>

Title **African American Residential Neighborhood, c. 1925**

Description African American residential neighborhood, 49th Street and Champlain, c. 1925.

Type Illustration Photograph

[More info](#)

[Go to Website](#)

[Large view](#)

[Resize](#)

[Annotate](#)



Title **Coachmen and Carriage in front of T. W. Harvey's Home, n.d.**

Description For nineteenth-century Chicagoans, carriages both provided transportation and served as very public symbols of one's status. Carriages ranged from very simple to very elegant, and showrooms around the city provided Chicagoans with many choices.

Type Photograph Illustration

[More info](#)

[Go to Website](#)

[Large view](#)

[Resize](#)

[Annotate](#)



Title **William Hale Thompson Voting, 1916**

Description The 1919 mayoral campaign revealed significant cleavages in Chicago's body politic. Reform candidate Charles E. Merriam failed in his Republican primary challenge to incumbent mayor William Hale Thompson (pictured here voting in 1916).

Type Illustration Photograph

[More info](#)

[Go to Website](#)

[Large view](#)

[Resize](#)

[Annotate](#)



Title **"Irishmen Attention!:" Campaign Poster, 1887**



IRISHMEN
ATTENTION!

One you are sold out by the so-called "Irish-American" element! It is a fact that cannot be disputed that the Independent movement, John A. Bonner, that your support and contributions would prove to support in an

ORANGEMAN!

One you countenanced and to become the your national and write for a man who is charged to his order officers their Orange Lodges to

DESTROY
all Catholic institutions of a State or National character. Think what before you Vote.

[More info](#)
[Go to Website](#)
[Large view](#)

Add to Bag



[More info](#)
[Go to Website](#)
[Large view](#)

Add to Bag



[More info](#)
[Go to Website](#)
[Large view](#)

Add to Bag



[More info](#)
[Go to Website](#)
[Large view](#)

Add to Bag



[More info](#)
[Go to Website](#)
[Large view](#)

Add to Bag



[More info](#)
[Go to Website](#)
[Large view](#)

Add to Bag



Metadata and multiple views of the picture

Search Resources

[◀ Back to results](#)
[Go to Website](#)
[Resize](#)

[Zoom ...](#)
+ + + +

title DuSable High School Basketball Team, 1954

creator Photographer: Unknown

description Victorious DuSable High School basketball team carrying coach Jim Brown in 1954. The team reached the state finals, the first all-African American team to do so, only to lose to Mt. Vernon High School in a game that still provokes debates about questionable officiating.

date 1954


type Illustration

type Photograph

identifier ICHI-26958

identifier <http://images.encyclopedia.chicagohistory.org/is/image/Illustrations/3104.tif>

source Source: Chicago Historical Society (ICI-26958)



[Record](#)

[Save Dublin Core Record as XML](#)

DLF Aquifer is built upon the DLF mission to enable new research and scholarship through practices. DLF Aquifer participants leverage shared actions, resources and infrastructures together and made accessible across the globe.

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Resizing the picture



DLF Aquifer - Asset action experimentation
Technical working group

Search Resources

[◀ Back to results](#)

title DuSable High School
creator Photographer: Unknown
description Victorious DuSable High School basketball team, 1954. The team re-
 do so, only to lose the game. The team re-
 debates about que-
date 1954
type Illustration
type Photograph
identifier ICHI-26958
identifier http://images.encyclopedia.com/...
source Source: Chicago Historical Society



Double click on image to resize



Bookbag

View bookbag

◀ [Back to results](#)



United we win / War Manpower Commission ; OWI photograph by Liberman.

[More info](#)
[Go to Website](#)
[Large view](#)

Remove from Bag



William Hale Thompson
 Voting, 1916

[More info](#)
[Go to Website](#)
[Large view](#)

Remove from Bag



Blue black, Duke of Gloucester St.
 Annapolis, Md. Blue-black = Duke of
 Gloucester St. Annapolis

[More info](#)
[Go to Website](#)
[Large view](#)

Remove from Bag



Hillsboro, Virginia Negro tots and
 flower garden, Hillsboro, Va. (close-
 up)

[More info](#)



Use it up--wear it out--make it
 do! :our labor and our goods
 are fighting.

[More info](#)
[Go to Website](#)



Poster Depicting "Sacred Motherhood,"
 1908

[More info](#)

Export bag

Title :

Export format : PDF or RTF

Export

Email my bag

From :

To :

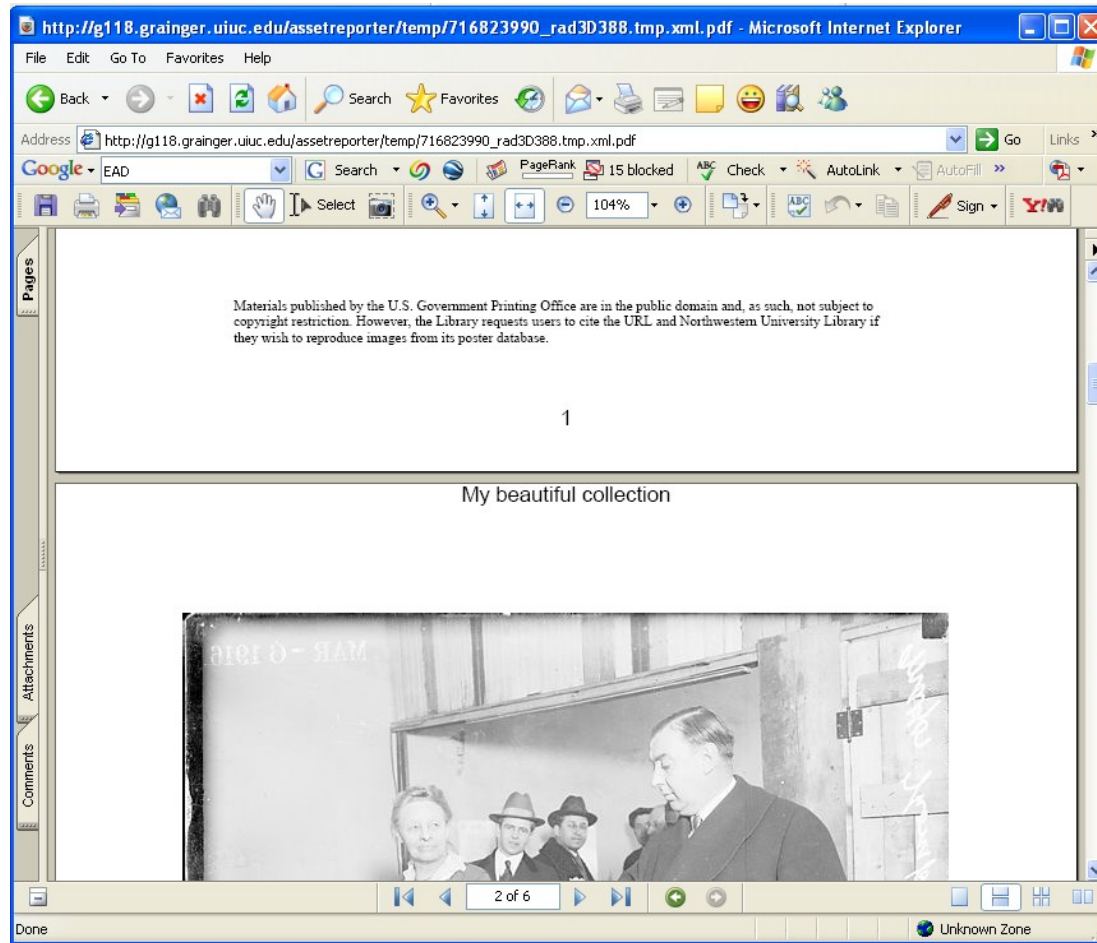
Subject :

Message :

SendEmail



Export bookbag to PDF or Word



Email collection

My beautiful collection - Message (HTML)

File Edit View Insert Format Tools Actions Help

Reply Reply to All Forward

From: mfoulonn@uiuc.edu
 To: mfoulonn@uiuc.edu
 Cc:
 Subject: My beautiful collection

Sent: Wed 7

DLF-Aquifer library resources

[Have a look at this Muriel](#)



Medical Technicians, Wesley Hospital, 1951

[More info](#)
[Go to Website](#)



Drayman Baltimore docks Baltimore drayman, horse, and dray.

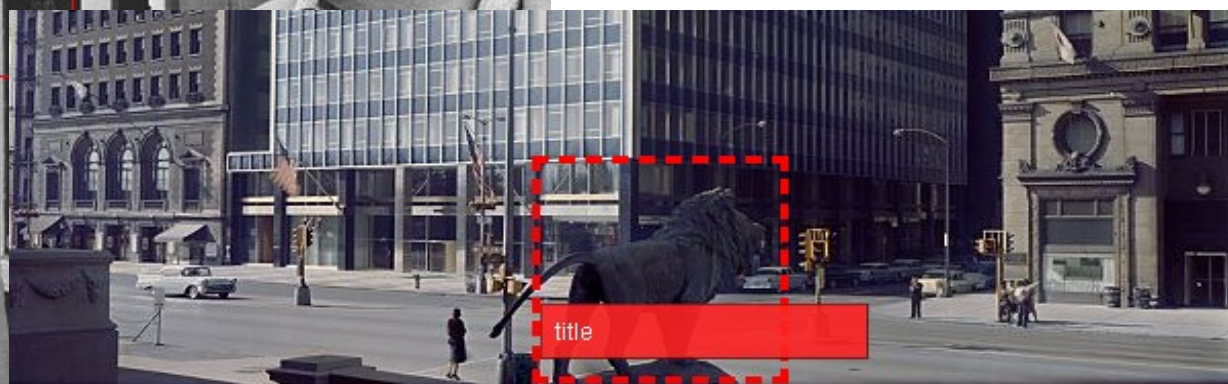
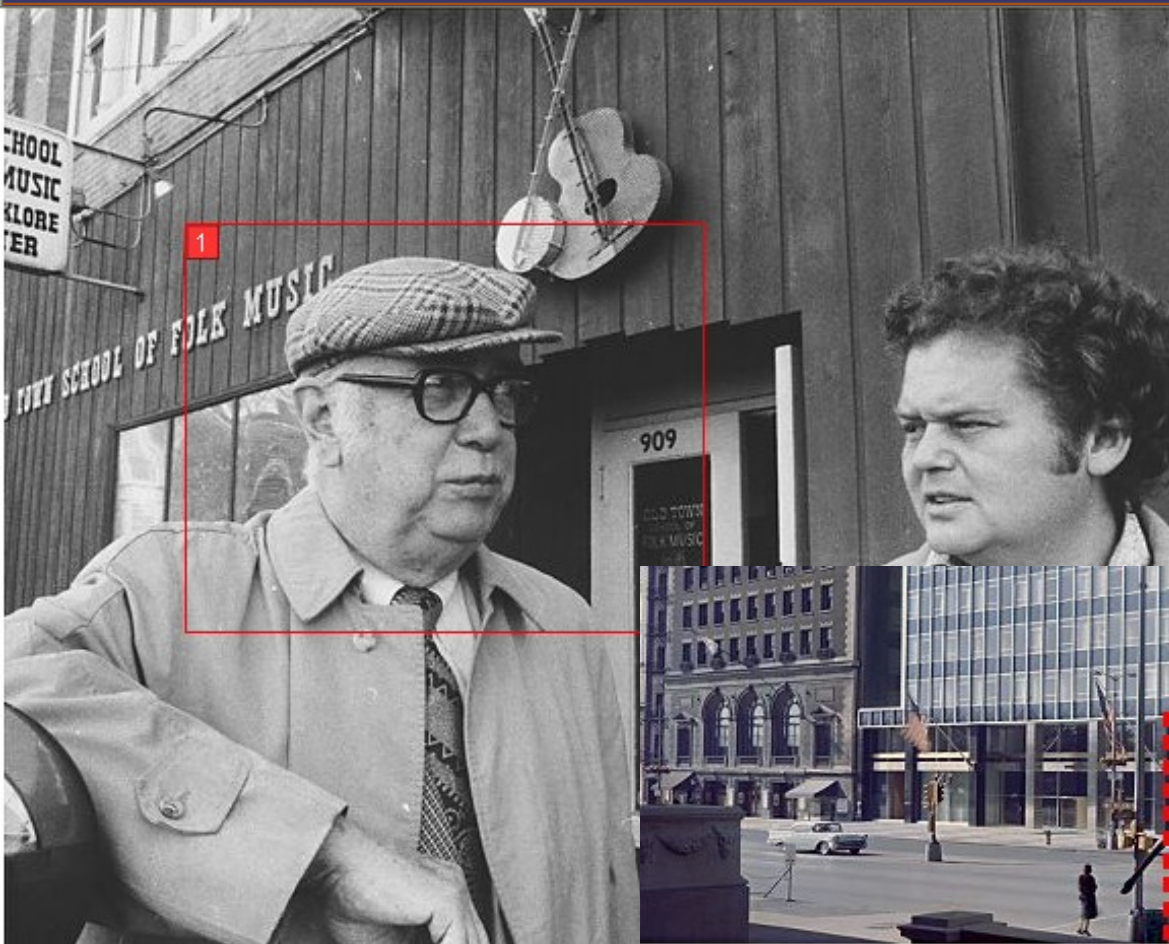
[More info](#)
[Go to Website](#)



Win Stracke and Ray Tate at Old Town School of Folk Music, c.1970s

[More info](#)
[Go to Website](#)

Annotate



Full record

<i>type</i>	Illustration
<i>description</i>	Borg-Warner Corp.'s headquarters on S. Michigan Ave. and E. Adams St., 1958
<i>type</i>	Photograph
<i>format</i>	film negative
<i>identifier</i>	HB-21890a
<i>identifier</i>	http://images.encyclopedia.chicagohistory.org/is/image/illustrations/11088.tif
<i>source</i>	Source: Chicago Historical Society (HB-21890a)

Collector tool options

UNIVERSITY of VIRGINIA LIBRARY Digital Object Collector Tool



[Large view](#)

Add to Bag



Open Image in Viewer

Open Image in this Window

Add To Collection

Download Image

View Image Information

Medical Technicians, Wesley Hospital, 1951 South I

[More info](#)

[Go to Website](#)

[Large view](#)

Remove from Bag



Collect pictures

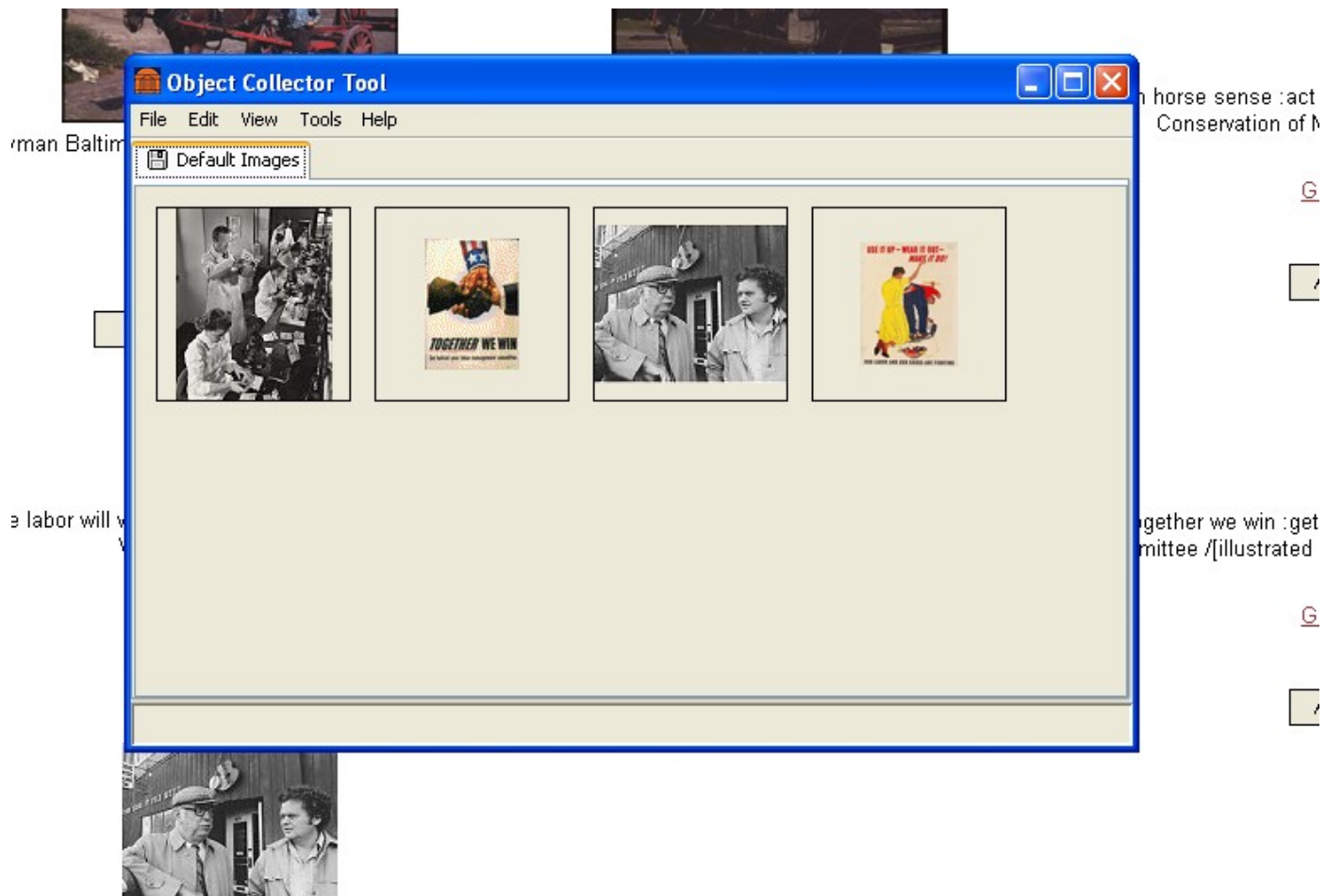
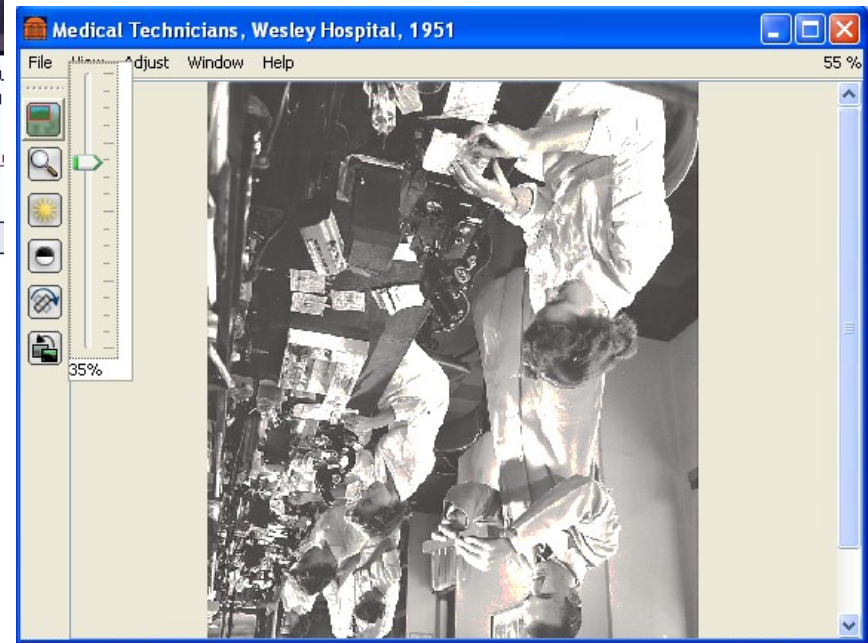


Image viewer



Slideshow



<http://www.library.northwestern.edu/govpub/collections/wwii-posters/img/ww1646-10-sml.gif>



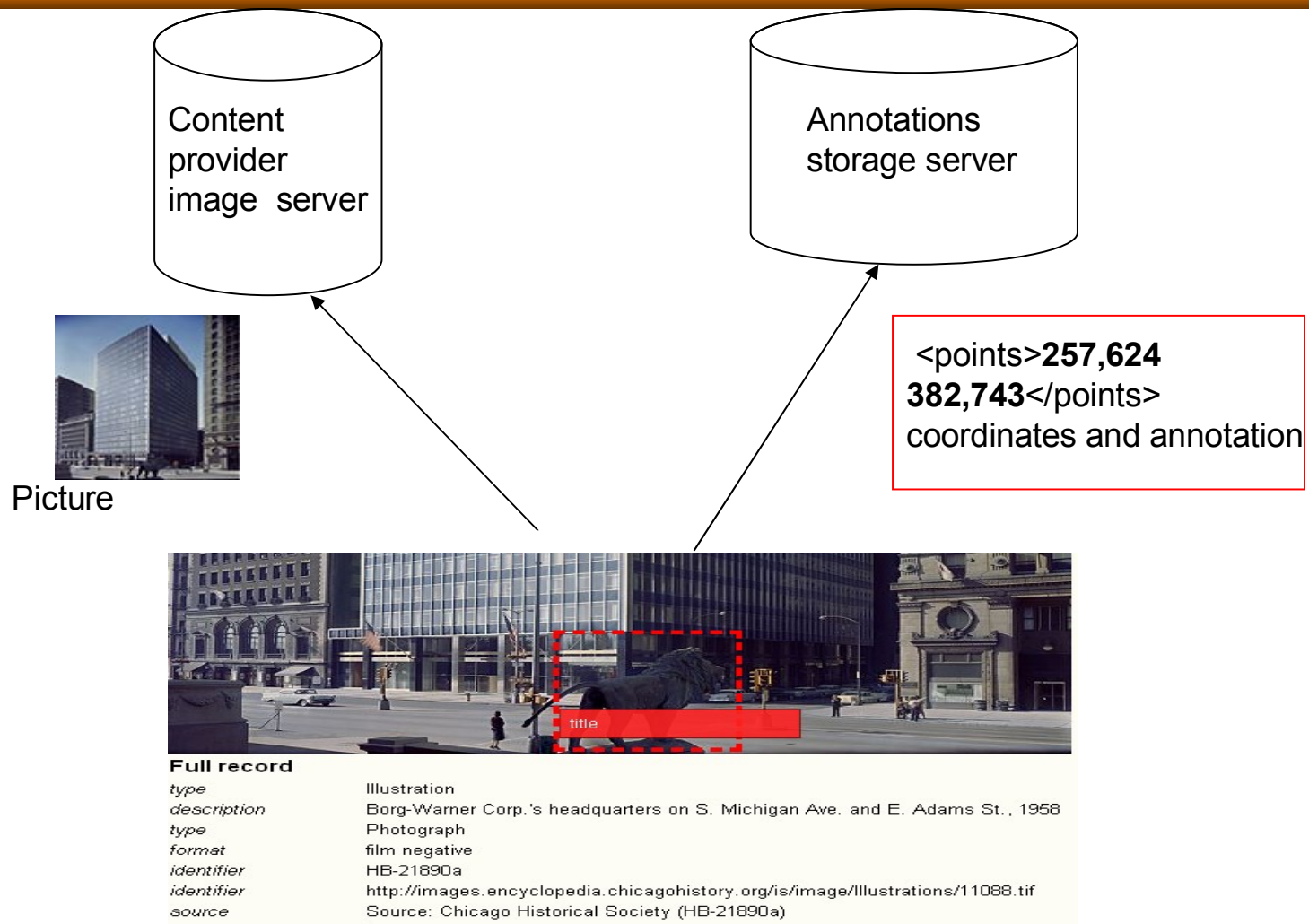
The Asset Definition: A list of Actionable URLs



The Asset Definition format

Action	Content
Asset Definition	the asset action record
Preview	to include in snippets
Label	to display with the image
Description	XML metadata record (DC at this point)
Web View	the image integrated in a Webpage, including a navigation bar and contextual information
Thumbnail	reduced-size versions of pictures
Screen Size	screen size image (taking the reference of a 800*600 display(?))
Max Size	largest image available or image with the largest available resolution
Dynamic View	the image, in an environment allowing user to execute actions such as zoom.

DP keeps responsibility of the resource



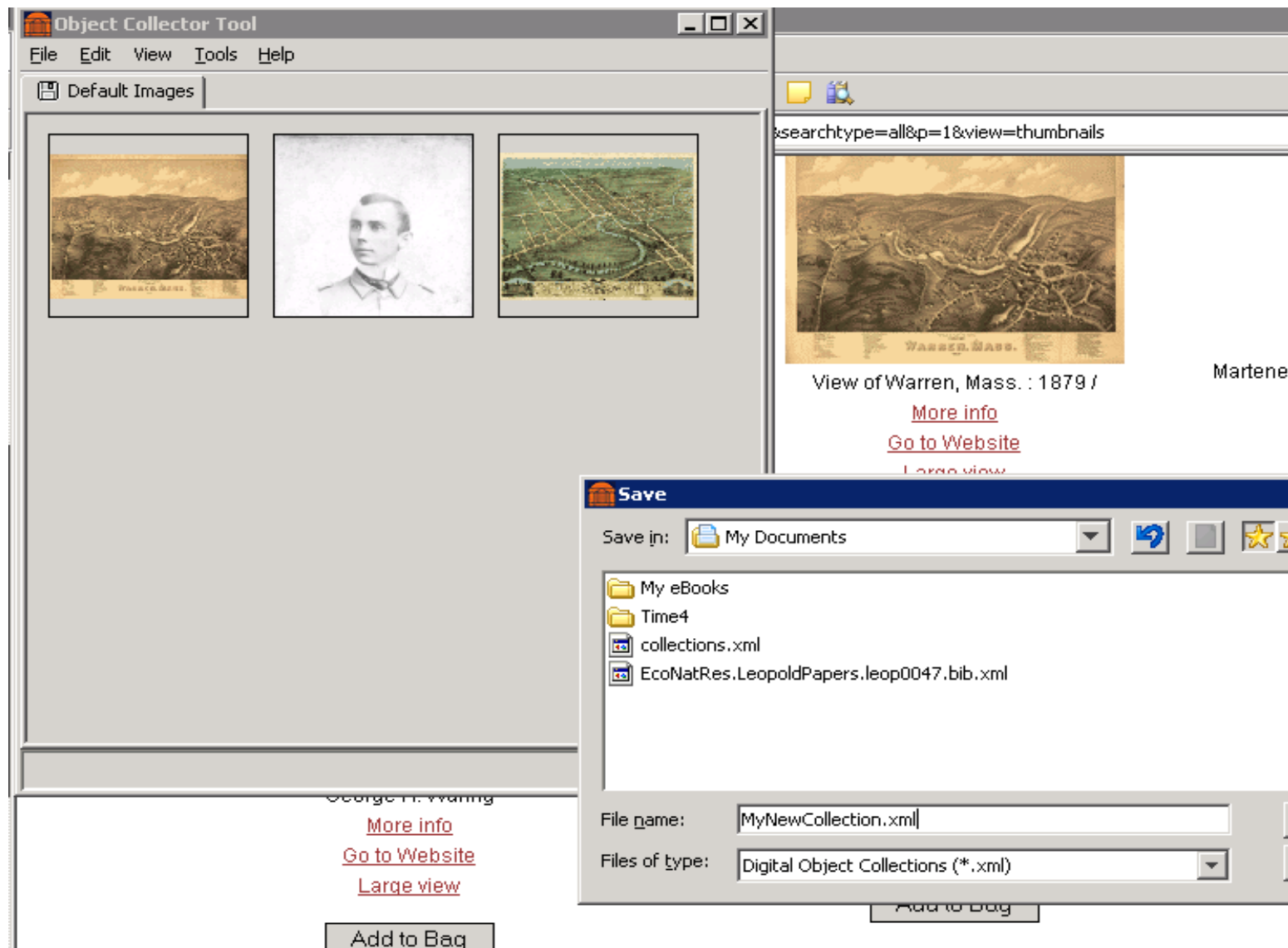
An annotation includes a pointer

```

<foaf:Image
rdf:about="http%3A//images.encyclopedia.chicagohistory.org/is/ima
ge/Illustrations/11088.tif%3Fwid%3D600%26resmode%3Dsharp%2
6op_usm%3D1%2C0.5%2C0.5">
[...]
- <hasPart xmlns="http://jibbering.com/vocabs/image/#">
- <Rectangle rdf:ID="p2">
  <points>257,624 382,743</points>
  <title xmlns="http://purl.org/dc/elements/1.1/">title</title>
  <description
    xmlns="http://purl.org/dc/elements/1.1/">lion</description>
- <depicts rdf:parseType="Resource">
  <description xmlns="http://purl.org/dc/elements/1.1/">in the
    shadow</description>
</depicts>
</Rectangle>
</hasPart>
</foaf:Image>

```

A collection is an XML list of pointers



Issues for architectures relying on pointers

- Persistence and reliability of pointers
 - We need to point to
 - All representations of objects (views and metadata)
 - Parts of objects
 - Groups of objects
- ⇒ *Entities* in the Pathways Core data model
- ⇒ We need ontologies and mechanisms to allow pointers to all types of entities

Issues with the Asset Definition schema

- Overloads data providers
 - Create an Asset Definition
 - Integrate their Asset Definition in a suitable schema

```
- <mods:recordInfo>
  <mods:recordContentSource>Indiana University Digital Library
Program</mods:recordContentSource>
  <mods:recordCreationDate encoding="w3cdtf">2004-09-09</mods:
  <mods:recordIdentifier>archives/cushman/P02584</mods:recordId
</mods:recordInfo>
</mods:mods>
- <aqa:assetActions type="image" objid="archives/cushman/P02584"
- <aqa:actionGroup name="defaultActionGroup" label="default Acti
  <aqa:action format="text/xml" name="getAssetDefinition" label="A
uri="http://melpomene.dlib.indiana.edu/cgi-
bin/aquifer/getAssetDefinition?archives/cushman/P02584" />
  <aqa:action format="image/jpeg" name="getPreview" label="Previ
uri="http://purl.dlib.indiana.edu/iudl/archives/cushman/thumbnail
  <aqa:action format="text/plain" name="getLabel" label="Label"
uri="http://melpomene.dlib.indiana.edu/cgi-bin/aquifer/getLabel?a
  <aqa:action format="text/xml" name="getDCRecord" label="Descri
uri="http://melpomene.dlib.indiana.edu/cgi-bin/aquifer/getDCRec
/>
  <aqa:action format="text/html" name="getWebView" label="Web V
uri="http://purl.dlib.indiana.edu/iudl/archives/cushman/P02584" />
  <aqa:action format="image/jpeg" name="getDefaultContent" label
uri="http://purl.dlib.indiana.edu/iudl/archives/cushman/full/P0258
</aqa:actionGroup>
- <aqa:actionGroup name="basicImageActionGroup" label="basic I
  <aqa:action format="image/jpeg" name="getThumbnail" label="Th
uri="http://purl.dlib.indiana.edu/iudl/archives/cushman/thumbnail
  <aqa:action format="image/jpeg" name="getScreenSize" label="Sc
uri="http://purl.dlib.indiana.edu/iudl/archives/cushman/screen/P0
```



Making sure
Data Providers
will not have to do extra
work



The relation between metadata and resources

■ Behind the URLs

Frank M. Hohenberger Photograph Collection

War chief and family, with horses and sled, Acoma

Location: New Mexico, 1942; Item: 27
Date:



© 1998 The Trustees of Indiana University
[Copyright information](#) | [Ordering information](#)

[Search the Collection](#) | [Browse the Collection](#) | [About the Finding Aid & Search Tips](#) | [Hohenberger Home](#) | [D](#)



Google

Cross Currents
A Yearbook of Central European Culture

Home Search Browse Help

[go to table of contents](#) [search within this text](#)

Title: Cross currents.

Availability: These pages may freely searched and displayed. Permission must be received for subsequent distribution in print.

Print Source: 1983
Cross currents.
9 v. : ill. ; 26 cm. : [1] 1982-9 (1990).
Ann Arbor :
Dept. of Slavic Languages and Literatures, University of Michigan,
1982-1990.

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Mráz Jr., Andrzej. *Dying?*
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From metadata to digital object

of clicks to the resource from the service provider's list of results

	# collections <i>(if thumbnails or tables of content are considered resource)</i>	# collections <i>(if thumbnails or tables of content are not considered resource)</i>
1 click	54	26
2 clicks	39	53
3 clicks	3	17
Total	96	96

Out of 96 CIC collections (June 2006)



Linking from a Record to a Resource

“It is best practice to provide one, primary URL that is a link to the resource with its contextual material (e.g. metadata, navigation to the collection homepage). “

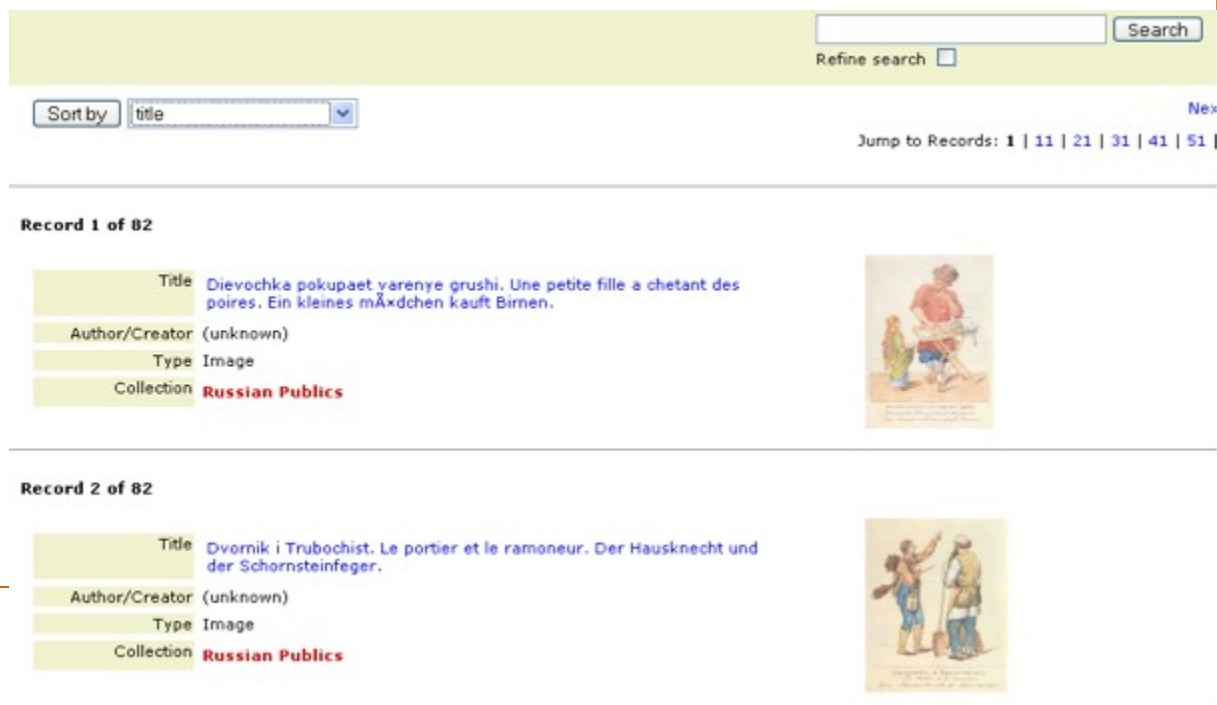
DLF/NSDL best practices for shareable metadata

<http://comm.nsd.org/download.php/653/ShareableMetadataBestPractices.doc>



Adding thumbnails to a service provider


- The Thumbgrabber application
 - Takes a URL (default to dc:identifier)
 - Scan page
 - Creates a thumbnail out of the largest image



The screenshot displays a web interface for a digital library. At the top, there is a search bar with a "Search" button and a "Refine search" checkbox. Below the search bar, a "Sort by" dropdown menu is set to "title". To the right, there is a "Jump to Records" section with links for 1, 11, 21, 31, 41, and 51. The main content area shows two records. Each record has a metadata table on the left and a thumbnail image on the right.


Record 1 of 82

Title	Dievchka pokupaet yarenye grushi. Une petite fille a chetant des poires. Ein kleines mÄxdchen kauft Birnen.
Author/Creator	(unknown)
Type	Image
Collection	Russian Publics



Record 2 of 82

Title	Dvornik i Trubochist. Le portier et le ramoneur. Der Hausknecht und der Schornsteinfeger.
Author/Creator	(unknown)
Type	Image
Collection	Russian Publics



Adaptation of the Thumbgrabber

Property	Description
Description	ALT tag on image
OAI Item Identifier	OAI identifier of the metadata record
Thumbnail Source	URL of the page parsed by the program
Original Thumbnail Source	Image from which a thumbnail was created
OriginalWidth	width in pixels of the image from which the thumbnail was created
OriginalHeight	height in pixels of the image from which the thumbnail was created
OriginalSize	size of the image from which the thumbnail was created
OriginalMIMEType	Mime type of the image from which the thumbnail was created
Software	version of the program which created the thumbnail

A limited set of available pointers

Action	Metadata record (any metadata format)	Webpage behind the URL
Preview	Thumbnail element	Thumbnail created by the Thumbgrabber program
Label	DC:Title property	Alt tag on largest image
Description	Query for the DC record in the OAI repository from which the record was harvested	
Web View		URL of the page [best practice]
Thumbnail	Thumbnail element	Thumbnail created by the Thumbgrabber program
Screen Size		Image on the Webpage
Max Size		Image on the Webpage
Dynamic View	-	

Generation of Asset Definitions - ContentDM

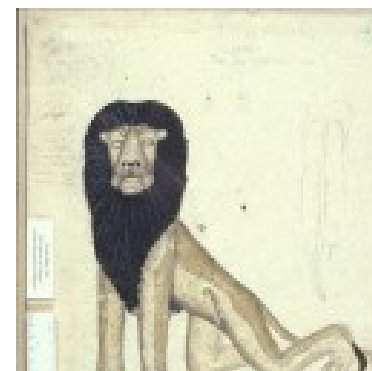
■ Auburn University ContentDM

- Alabama Cooperative Extension System (ACES) Photographs
- Auburn University Football Programs
- Eddie Rickenbacker Collection
- Caroline Dean Wildflower Collection
- Board of Trustees Minutes
- Auburn University Photographs Collection



■ University of Illinois at Urbana-Champaign

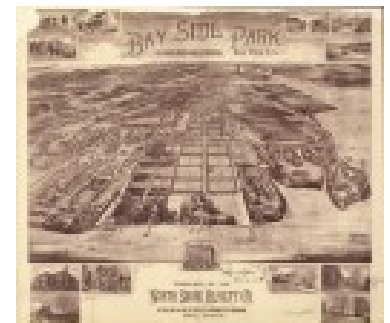
- American Library association finding-aid
- Collins Collection of Irish Political Cartoons
- French World War I posters
- German Emblem Books
- Illinois Historical Maps Online
- Motley Collection of Theatre and Costume Design
- Russian Publics
- Teaching with digital content



Generation of Asset Definitions – other system

■ Library of Congress

- Taking the Long View: Panoramic Photographs, 1851-1991
- Selected maps digitized by the Library of Congress
- Civil War Photographs
- Cartoon Prints, British (bulk 1780-1830)



Metadata are enhanced with Asset Definitions

Metadata harvested in simple Dublin Core then reprocessed to generate pointers

```
<coverage xmlns="http://purl.org/dc/elements/1.1/">Auburn, Lee Co. (Ala.)</coverage>
<subject xmlns="http://purl.org/dc/elements/1.1/">Auburn University -- History; Education, Higher -- Alabama</subject>
<subject xmlns="http://purl.org/dc/elements/1.1/">Alabama; Auburn University; Education</subject>
<format xmlns="http://purl.org/dc/elements/1.1/">JPEG</format>
<type xmlns="http://purl.org/dc/elements/1.1/">Image</type>
<identifier xmlns="http://purl.org/dc/elements/1.1/">IVA0013d</identifier>
<source xmlns="http://purl.org/dc/elements/1.1/">Auburn University Numbered Photographs</source>
<source xmlns="http://purl.org/dc/elements/1.1/">Auburn University. Special Collections and Archives</source>
<language xmlns="http://purl.org/dc/elements/1.1/">eng</language>
<relation xmlns="http://purl.org/dc/elements/1.1/">
<rights xmlns="http://purl.org/dc/elements/1.1/">In the public domain.</rights>
<contributor xmlns="http://purl.org/dc/elements/1.1/">Caudle, Dana M.</contributor>
<date xmlns="http://purl.org/dc/elements/1.1/">2005-07-28</date>
<identifier xmlns="http://purl.org/dc/elements/1.1/">http://content.lib.auburn.edu/u/?aunumphoto,53</identifier>
</dc>
- <aqa:assetActions xmlns:aqa="http://dca.tufts.edu/ad" type="image" objid="oai:content.lib.auburn.edu:aunumphoto/53">
- <aqa:actionGroup label="default Action Group" name="defaultActionGroup">
  <aqa:action label="Asset Definition" name="getAssetDefinition" format="text/xml" uri="http://cicarvest.grainger.uiuc.edu/service/getview.asp?
    oai=oai:content.lib.auburn.edu:aunumphoto/53&format=assetDefinition" />
  <aqa:action label="Preview" name="getPreview" format="image/png" uri="http://cicarvest.grainger.uiuc.edu/service/getview.asp?
    oai=oai:content.lib.auburn.edu:aunumphoto/53&format=thumbnail" />
  <aqa:action label="Label" name="getLabel" format="text/plain" uri="http://cicarvest.grainger.uiuc.edu/service/getlabel.asp?label=Resource%
    20Use%20Workshop%20Field%20Trip%204" />
  <aqa:action label="Description" name="getDCRecord" format="text/xml"
    uri="http://cicarvest.grainger.uiuc.edu/service/getMetadataRecord.asp?baseURL=http://content.lib.auburn.edu/cgi-
    bin/oai.exe&verb=GetRecord&metadataPrefix=oai_dc&identifier=oai:content.lib.auburn.edu:aunumphoto/53" />
  <aqa:action label="Web View" name="getWebView" format="text/html" uri="http://content.lib.auburn.edu/u/?aunumphoto,53" />
  <aqa:action label="Default Content" name="getDefaultContent" format="text/html" uri="http://content.lib.auburn.edu/u/?aunumphoto,53" />
</aqa:actionGroup>
- <aqa:actionGroup label="basic Image Action Group" name="basicImageActionGroup">
  <aqa:action label="Thumbnail" name="getThumbnail" format="image/png" uri="http://cicarvest.grainger.uiuc.edu/service/getview.asp?
    oai=oai:content.lib.auburn.edu:aunumphoto/53&format=thumbnail" />
  <aqa:action label="Screen Size" name="getScreenSize" format="image/unknown" uri="http://cicarvest.grainger.uiuc.edu/service/getview.asp?
    oai=oai:content.lib.auburn.edu:aunumphoto/53&format=screensize&adaptformat=1" />
  <aqa:action label="Max Size" name="getMaxSize" format="image/unknown" uri="http://cicarvest.grainger.uiuc.edu/service/getview.asp?
    oai=oai:content.lib.auburn.edu:aunumphoto/53&format=maxsize&adaptformat=1" />
  <aqa:action label="Dynamic View" name="getDynamicView" format="text/html" uri="http://content.lib.auburn.edu/u/?aunumphoto,53" />
</aqa:actionGroup>
</aqa:assetActions>
</aqa:wrapper>
```



2 dynamic scripts

- A Label Generator

takes a string (ALT tag or DC:Title) and generates plain text
=> A text pointer

<http://cicharvest.grainger.uiuc.edu/service/getlabel.asp?label=View%20of%20Warren%2C%20Mass.%20%3A%201879%20>

- A Description Generator

Takes a repository baseURL, an oai identifier, verb and metadataPrefix
=> A dynamic description

[http://cicharvest.grainger.uiuc.edu/service/getMetadataRecord.asp?
=http://memory.loc.gov/cgi-bin/oai2_0&verb=
GetRecord&metadataPrefix=oai_dc&identifier
=oai:lcoa1.loc.gov:loc.gmd/g3764w.pm003273](http://cicharvest.grainger.uiuc.edu/service/getMetadataRecord.asp?http://memory.loc.gov/cgi-bin/oai2_0&verb=GetRecord&metadataPrefix=oai_dc&identifier=oai:lcoa1.loc.gov:loc.gmd/g3764w.pm003273)

Description harvest for the collection tool

The screenshot displays a digital collection interface. A window titled "Warrensburgh, N.Y." is open, showing a thumbnail of a map and a list of metadata fields:

- title:** Warrensburgh, N.Y.
- creator:** Burleigh, L. R. 1853?-1923.
- creator:** Burleigh Litho.
- subject:** Warrensburg (N.Y.)--Aerial views.
- description:** Perspective map not drawn to scale.
- description:** Bird's-eye-view.
- description:** LC Panoramic maps (2nd ed.), 649
- description:** Indexed for points of interest.
- publisher:** Troy, N.Y., L. R. Burleigh
- date:** 1891
- type:** image
- tvpe:** map

Below the window, there is a button labeled "Add to Bag". To the right, a list of items is shown, including a thumbnail of "Onset Bay Grove, W." and a button labeled "Add to".



Reliable [?] pointers



Issue of asynchronous processes

- Availability of objects can change while the metadata are in production

Record 5 of 201

Title	American Council of Learned societies - History e-Book project
	ACLS History E-Book Project
Homepage	http://www.historyebook.org/
Collector	University of Michigan
Description	The ACLS History E-Book (HEB) Project contains books of high quality in the field of history. These are works of major importance to historical studies; books that remain vital to both scholars and advanced students, and are frequently cited...
Access Rights	restricted
Extent	1272 items



Record 6 of 201

Title	American Environmental Photographs, 1891-1936: Images from the University of Chicago Library
Homepage	http://memory.loc.gov/ammem/award97/icuhtml/aepphome.html
Collector	University of Chicago
Description	This collection consists of approximately 4,500 photographs documenting natural environments, ecologies, and plant communities in the United States at the end of the nineteenth and the beginning of the twentieth century. Produced between 1891...
Extent	4619 items




An HTTP-based Object Delivery Service

- Find an object based on a URL or an OAI identifier

<http://cicharvest.grainger.uiuc.edu/service/getview.asp?url=http://con>

<http://cicharvest.grainger.uiuc.edu/service/getview.asp?oai=oai:content.lib.auburn.edu:aunumphoto/21&format=thumbnail>

Address  <http://cicharvest.grainger.uiuc.edu/service/getview.asp?oai=oai:content.lib.auburn.edu:aunumphoto/21&format=thumbnail>

Google



Search



PageRank



Popups okay



Check



The object delivery

- Object is delivered as a datastream
 - From a local object (if created by Thumbgrabber)
 - From a remote object if the pointer is directed to a data provider Website
- Sets the mime type
- A machine can know if there is an object
 - HTTP status

A series of formats

- ▶ Thumbnail
- ▶ Small
- ▶ Screensize
- ▶ Maxsize
- ▶ AssetDefinition

And their definition

- Everybody has a different definition for a thumbnail

Dimension (width x height)	Descriptive name
48x48	very small
64x64	Small
96x96	Medium
128x128	Large
144x144	extra large
160x160	super large
192x192	ridiculous large



Jens Finke's reference sizes for thumbnails



What if the object does not exist?

■ Delivers an empty pixel

page 1 / 1

Title [Construction of Congress Parkway, 1951](#)

Description The view here is west from the Post Office along Canal Street, through which Congress Parkway passes. Construction on the Congress Expressway (later known as the Eisenhower Expressway), into which the parkway leads, began in 1949.

Type Illustration Photograph

[More info](#)

[Go to Website](#)

[Large view](#)

[Resize](#)

[Annotate](#)

Add to Bag



Title [Congress Parkway at Post Office, 1959](#)

Description Congress Parkway passing through the U.S. Post Office, 1959.

Type Illustration Photograph

[More info](#)

[Go to Website](#)

[Large view](#)

[Resize](#)

[Annotate](#)

Add to Bag

Title [Michigan Avenue and Congress Street, 1868-1869](#)

Description Northward on Michigan Avenue from Congress Street, 1868-1869. Note the Illinois Central Railroad tracks running along a trestle over the lakeshore.

Type Illustration Photograph

[More info](#)

[Go to Website](#)

[Large view](#)

[Resize](#)

[Annotate](#)

Add to Bag



Title [Benny Goodman and Orchestra, 1935](#)

Description Benny Goodman and Orchestra, Congress Hotel, 1935.

Type Illustration Photograph

[More info](#)

[Go to Website](#)

[Large view](#)

[Resize](#)

[Annotate](#)

Add to Bag



The adaptFormat parameter

- <http://cicharvest.grainger.uiuc.edu/service/getview.asp?oai=oai:lcoa1.loc.gov:loc.gmd/g3200.ct000123&format=screen size>
 - Will generate an empty pixel
- <http://cicharvest.grainger.uiuc.edu/service/getview.asp?oai=oai:lcoa1.loc.gov:loc.gmd/g3200.ct000123&format=screen size&adaptformat=1>
 - Delivers a small image



All this is actually
working



IMLS DCC

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Ammunition](#) 


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[More info](#)title [Women of Kickapoo Nation](#) 

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Collection Teaching with Digital Content -

[More info](#)title [...Because Somebody Talked!](#) 

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Collection Teaching with Digital Content -

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CIC metadata portal

Search CIC Library Resources

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[Help](#)

Click [here](#) to install the Firefox plug-in

Your search was in **all fields** for **"lib.uchicago.edu.apf"**.

8968 records.

Refine search ☐

Results by Institution

University of Chicago:
Archival Photofiles
8968 records

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Record 1 of 8968

Title	Abbott Memorial Hall
	Series II: Buildings and Grounds
	Architects' Drawings 1
	Physiology Building 1
Author/Creator	Coolidge and Hodgdon; Coolidge and Hodgdon
Subject	Architectural drawings; Presentation drawings (proposals); Biological sciences
Type	Image
Collection	Archival Photofiles

Record 2 of 8968

DLF-Aquifer Asset Actions portal



DLF Aquifer - Asset action experimentation

Technical working group

Search Resources

Metadata view

View bookbag

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Construction of Congress Parkway, 1951

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Congress Parkway at Post Office, 1959

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Michigan Avenue and Congress Street, 1868-1869

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Benny Goodman and Orchestra, 1935

[More info](#)

[Go to Website](#)

[Large view](#)



White City Roller Rink Demonstration, 1949

[More info](#)

[Go to Website](#)

[Large view](#)



South State Street Arcades and Theaters, c.1912

[More info](#)

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Conclusion



Key concepts

- Data providers retain the responsibility of maintaining the authoritative version of their resource. There is no need to duplicate the object in building the distributed digital library.
 - Applications only use pointers
 - Objects are accessed and used in real time by end users and services
 - A registry of pointers
 - Adaptation of pointers to the context
 - Eg. For accessibility issues

What's next?

- A list of text actions to collect more than pictures
- Integration in the Pathways Core architecture
 - Delivering and uploading objects can work with pointers from the HTTP-based Object Delivery Service?
- Deeper spidering of the Data Providers' Websites
- Enriching the ontology of entities for academic and heritage resources
- Finding a way of expressing IPR related to manipulation of objects



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http://www.diglib.org/forums/spring2006/presentations/aquifer0406_files/frame.htm
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<http://www.dlib.org/dlib/january06/foulonneau/01foulonneau.html>

